

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P529570

Luminaire Tested: **GALN-SA4D-727-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529570
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-727-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21821 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

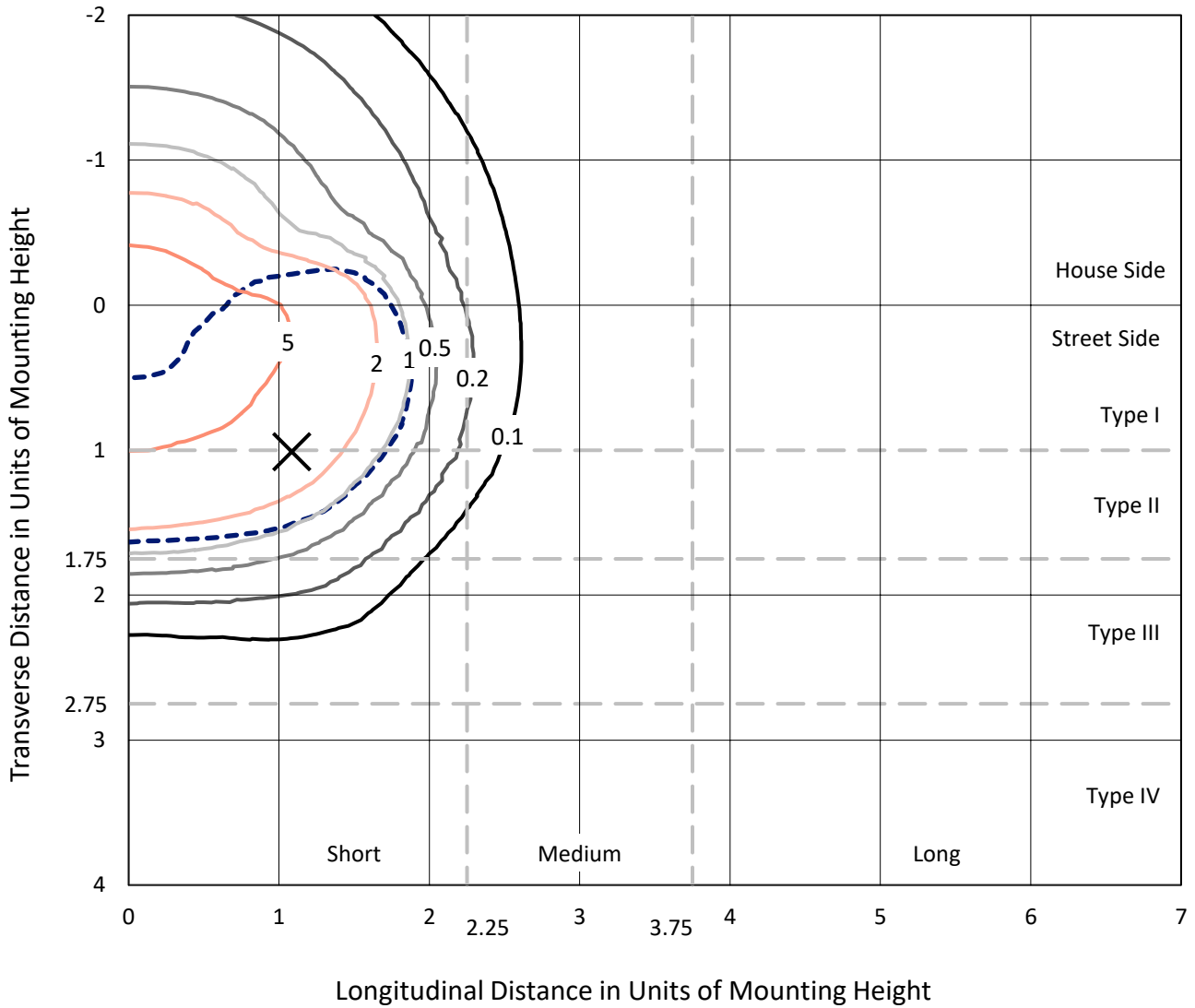
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

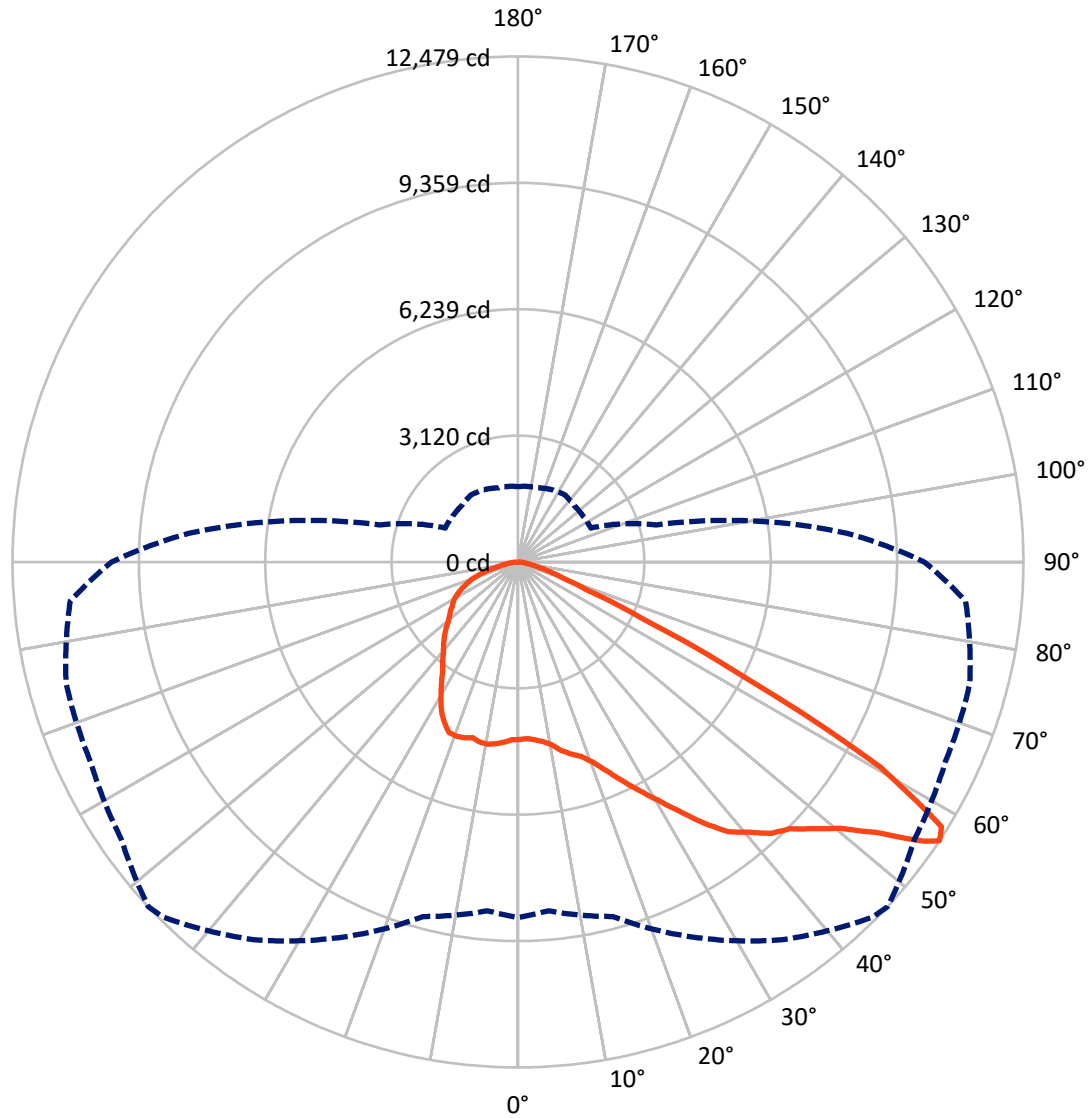
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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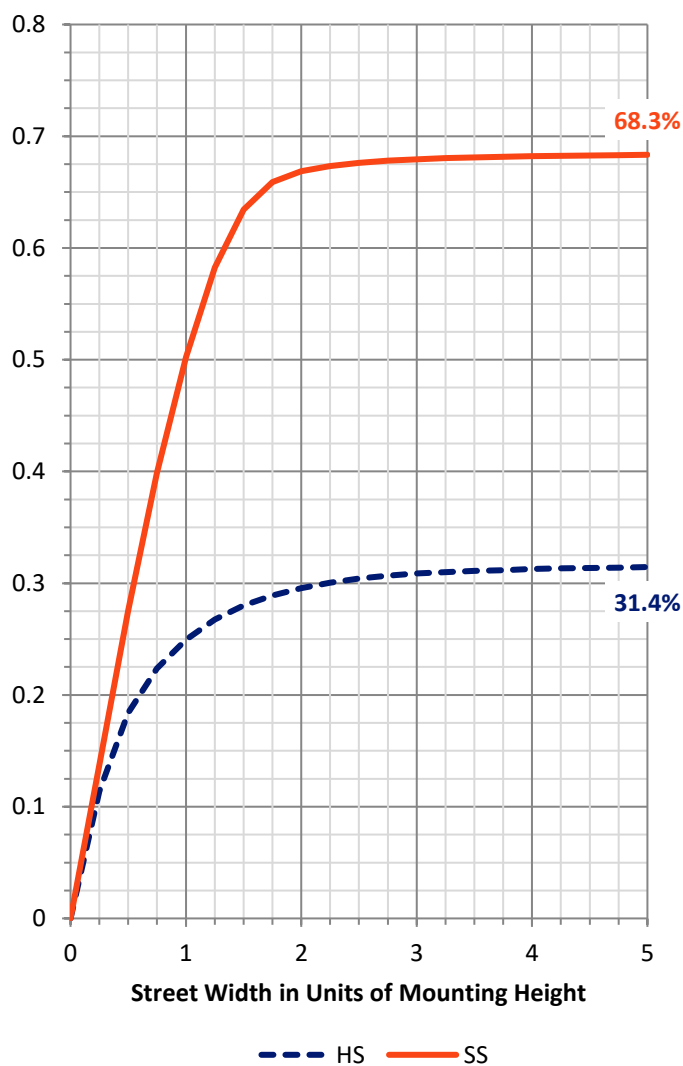
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6914.8	0.0	6914.8
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	14906.2	0.0	14906.2
	% Fixture	68.3	0.0	68.3
Total	Lumens	21821.0	0.0	21821.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.1	2.0
10°-20°	1347.2	6.2
20°-30°	2381.6	10.9
30°-40°	3577.0	16.4
40°-50°	4909.1	22.5
50°-60°	5848.6	26.8
60°-70°	2502.8	11.5
70°-80°	708.3	3.2
80°-90°	119.2	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	21821.0	100.0
0°-180°	21821.0	100.0

Coefficient of Utilization



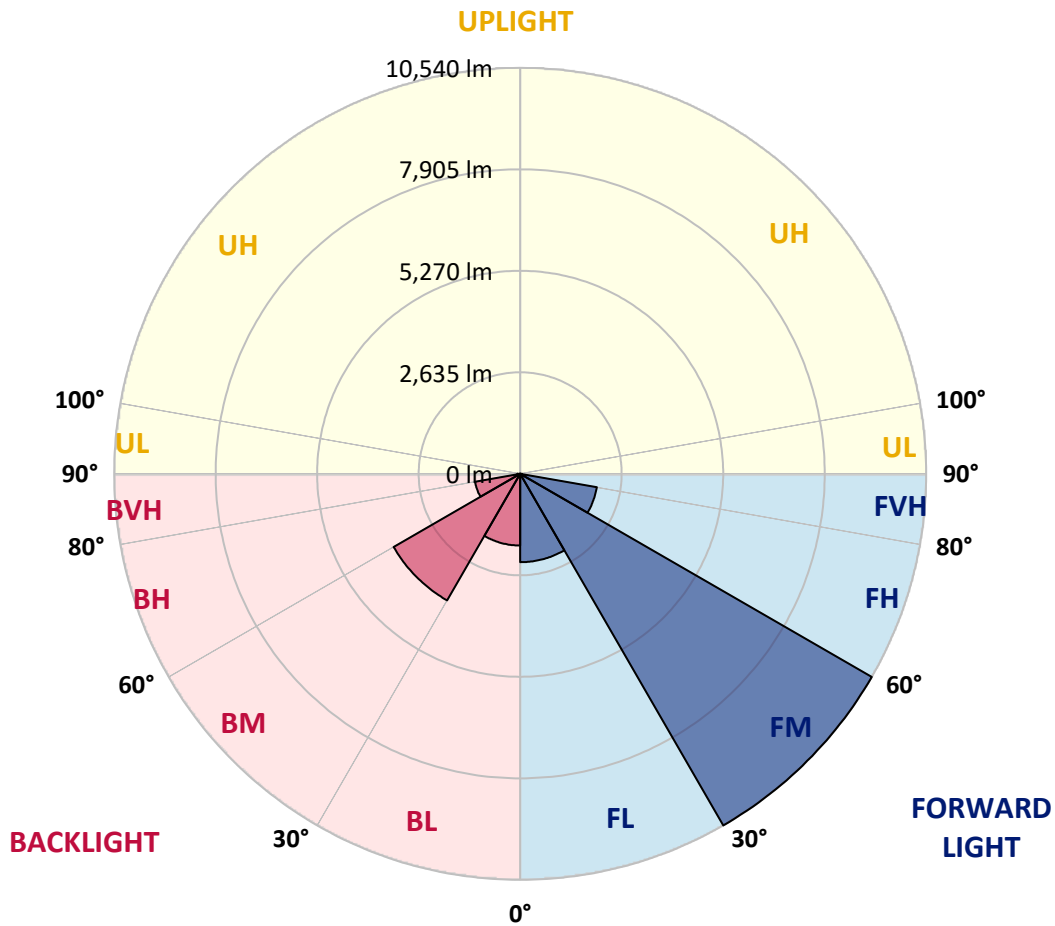
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2294.1	10.5			
FM (30°-60°)	10540.0	48.3			
FH (60°-80°)	2021.4	9.3			G2/5000
FVH (80°-90°)	50.6	0.2			G1/100
BL (0°-30°)	1861.8	8.5	B3/2500		
BM (30°-60°)	3794.7	17.4	B3/5000		
BH (60°-80°)	1189.7	5.5	B3/2500		G3/2500
BVH (80°-90°)	68.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4383.2	4383.2	4383.2	4383.2	4383.2	4383.2	4383.2	4383.2	4383.2	4383.2	4383.2
2.5°	4366.5	4358.1	4352.6	4397.1	4380.4	4383.2	4366.5	4383.2	4394.3	4369.3	4405.4
5°	4358.1	4383.2	4360.9	4374.8	4411.0	4399.9	4411.0	4444.4	4436.1	4427.7	4416.6
7.5°	4436.1	4438.8	4455.5	4461.1	4472.2	4461.1	4477.8	4508.4	4500.1	4452.8	4458.3
10°	4547.4	4552.9	4555.7	4586.3	4605.8	4608.6	4589.1	4561.3	4558.5	4622.5	4578.0
12.5°	4675.4	4661.5	4694.9	4706.0	4728.3	4753.3	4778.4	4719.9	4756.1	4758.9	4706.0
15°	4861.8	4875.8	4836.8	4836.8	4845.1	4847.9	4917.5	4889.7	4884.1	4853.5	4875.8
17.5°	5140.1	5045.5	5042.7	5003.8	4998.2	5020.5	5045.5	5067.8	5142.9	5081.7	4962.0
20°	5343.3	5365.6	5284.9	5237.5	5245.9	5296.0	5270.9	5371.1	5424.0	5323.8	5206.9
22.5°	5702.3	5627.2	5646.6	5540.9	5549.2	5602.1	5599.3	5702.3	5732.9	5574.3	5404.5
25°	5944.4	5924.9	5941.6	5858.1	5869.3	5911.0	5977.8	6147.6	6097.5	5922.2	5529.8
27.5°	6297.9	6258.9	6245.0	6214.4	6203.2	6314.6	6392.5	6573.4	6537.2	6281.2	5752.4
30°	6659.6	6634.6	6648.5	6523.3	6567.8	6804.4	6826.6	7074.3	7057.6	6606.8	6000.1
32.5°	6910.1	6924.0	6949.1	6879.5	7077.1	7266.3	7341.5	7622.6	7636.5	7166.1	6478.8
35°	7313.6	7266.3	7280.2	7361.0	7452.8	7797.9	7920.3	8106.8	8223.7	7753.4	6937.9
37.5°	7566.9	7617.0	7558.5	7686.6	7925.9	8340.6	8451.9	8643.9	8766.4	8332.2	7564.1
40°	7962.1	7881.4	7923.1	8015.0	8259.9	8799.7	8769.1	8966.7	9005.7	8824.8	8148.5
42.5°	8387.9	8348.9	8290.5	8499.2	8705.1	9097.5	9158.8	9066.9	9264.5	9306.2	8983.4
45°	8897.2	8944.5	8952.8	8958.4	9139.3	9481.6	9398.1	9317.4	9545.6	9848.9	9501.1
47.5°	9370.3	9220.0	9328.5	9478.8	9734.8	9737.6	9835.0	9643.0	9885.1	10155.1	9968.6
50°	9528.9	9456.5	9601.2	9885.1	10280.3	10322.0	10333.2	10060.4	10185.7	10400.0	10130.0
52.5°	9467.7	9442.6	9812.7	10252.5	10831.3	11042.8	11098.5	10761.7	10831.3	10733.9	10486.2
55°	9175.4	9250.6	9623.5	10519.6	11407.4	12061.4	12167.1	11741.3	11298.9	11374.0	11101.3
56°	8774.7	8643.9	9061.3	10216.3	11382.3	12392.6	12478.8	11947.3	11646.7	11549.3	11095.7
57.5°	7444.4	7274.7	7822.9	9192.1	10750.6	12267.3	12331.3	12033.6	11588.3	11390.7	10285.9
60°	4358.1	4441.6	5137.4	6339.6	8293.2	10057.6	10271.9	10489.0	10191.2	9306.2	7655.9
62.5°	2103.9	2051.0	2549.2	3634.6	5053.9	6420.3	6356.3	6965.8	7299.7	6612.3	4834.0
65°	1102.1	1096.5	1391.5	1984.3	2777.4	3373.0	3431.4	3759.8	4219.0	3406.4	2454.6
67.5°	809.8	832.1	979.6	1394.3	1786.7	1822.8	1814.5	1978.7	2023.2	1711.5	1508.4
70°	634.5	645.6	754.2	1060.3	1330.3	1191.1	1166.1	1185.5	1316.3	1372.0	1305.2
72.5°	459.2	470.3	562.2	715.2	832.1	812.6	829.3	937.9	1099.3	1157.7	1088.1
75°	306.1	314.5	364.6	436.9	492.6	531.5	562.2	687.4	837.7	871.1	837.7
77.5°	211.5	219.9	253.3	308.9	314.5	339.5	350.7	409.1	500.9	542.7	520.4
80°	119.7	119.7	136.4	158.6	194.8	228.2	233.8	281.1	322.8	350.7	356.2
82.5°	55.7	58.4	72.4	97.4	128.0	158.6	164.2	194.8	225.4	253.3	261.6
85°	27.8	30.6	41.7	58.4	77.9	94.6	91.8	94.6	100.2	94.6	97.4
87.5°	8.3	8.3	11.1	13.9	11.1	13.9	13.9	16.7	19.5	22.3	25.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4383.2	4383.2	4383.2	4383.2	4383.2	4383.2	4383.2	4383.2	4383.2	4383.2	4383.2
2.5°	4408.2	4416.6	4360.9	4413.8	4394.3	4391.5	4430.5	4424.9	4438.8	4433.3	4399.9
5°	4411.0	4391.5	4450.0	4397.1	4422.1	4475.0	4438.8	4522.3	4480.6	4508.4	4447.2
7.5°	4497.3	4502.8	4491.7	4514.0	4502.8	4527.9	4508.4	4527.9	4494.5	4497.3	4552.9
10°	4572.4	4555.7	4575.2	4547.4	4566.9	4558.5	4514.0	4500.1	4511.2	4497.3	4533.5
12.5°	4711.6	4681.0	4667.0	4633.6	4611.4	4527.9	4458.3	4419.4	4472.2	4480.6	4463.9
15°	4853.5	4856.3	4792.3	4717.1	4578.0	4452.8	4469.4	4483.4	4483.4	4505.6	4463.9
17.5°	4942.6	4942.6	4884.1	4733.8	4591.9	4519.5	4502.8	4458.3	4419.4	4413.8	4411.0
20°	5098.4	5051.1	4917.5	4731.0	4586.3	4552.9	4427.7	4322.0	4241.2	4213.4	4210.6
22.5°	5276.5	5156.8	4970.4	4736.6	4578.0	4530.7	4296.9	4138.3	3993.6	3932.3	3940.7
25°	5440.7	5248.7	5001.0	4711.6	4547.4	4319.2	4057.6	3837.7	3687.4	3637.3	3612.3
27.5°	5554.8	5346.1	5001.0	4733.8	4433.3	4082.6	3815.5	3534.4	3403.6	3370.2	3375.7
30°	5707.9	5468.5	5087.3	4686.5	4205.1	3776.5	3456.4	3272.8	3194.8	3167.0	3186.5
32.5°	6066.9	5788.6	5206.9	4572.4	3935.1	3470.4	3211.5	3108.6	2994.5	2938.8	2919.3
35°	6456.5	6091.9	5323.8	4380.4	3631.8	3192.1	3030.7	2936.0	2799.7	2738.4	2749.6
37.5°	7007.5	6481.5	5332.2	4063.1	3303.4	3036.2	2888.7	2741.2	2629.9	2535.3	2507.5
40°	7750.6	7013.1	5312.7	3729.2	3039.0	2852.5	2744.0	2560.3	2435.1	2368.3	2382.2
42.5°	8404.6	7636.5	5232.0	3350.7	2799.7	2727.3	2604.9	2424.0	2301.5	2231.9	2226.4
45°	8955.6	8095.7	5078.9	3027.9	2599.3	2588.2	2446.2	2307.1	2209.7	2145.7	2173.5
47.5°	9464.9	8465.8	4847.9	2705.0	2415.6	2437.9	2301.5	2215.2	2154.0	2095.6	2092.8
50°	9648.6	8460.2	4644.8	2437.9	2268.1	2257.0	2251.4	2159.6	2095.6	2045.5	2067.7
52.5°	9954.7	8554.8	4424.9	2254.2	2134.5	2137.3	2156.8	2090.0	2017.7	1987.0	2014.9
55°	10394.4	8568.8	3940.7	2039.9	2023.2	2042.7	2042.7	1998.2	1936.9	1911.9	1898.0
56°	10035.4	8154.1	3534.4	1984.3	1967.6	1967.6	2020.4	1970.3	1895.2	1875.7	1859.0
57.5°	9256.2	7143.9	2958.3	1917.5	1892.4	1931.4	1959.2	1906.3	1836.8	1808.9	1825.6
60°	6384.1	4834.0	2223.6	1772.8	1772.8	1836.8	1859.0	1781.1	1750.5	1747.7	1725.4
62.5°	3726.4	2816.4	1739.4	1642.0	1647.5	1700.4	1717.1	1672.6	1633.6	1680.9	1703.2
65°	1975.9	1680.9	1491.7	1502.8	1505.6	1547.3	1619.7	1616.9	1614.1	1628.0	1630.8
67.5°	1430.4	1397.1	1355.3	1344.2	1349.7	1380.4	1452.7	1508.4	1505.6	1472.2	1447.1
70°	1274.6	1227.3	1202.2	1205.0	1182.8	1218.9	1277.4	1313.6	1249.6	1210.6	1193.9
72.5°	1060.3	1046.4	1029.7	1032.5	988.0	979.6	912.8	912.8	896.1	885.0	904.5
75°	809.8	804.3	812.6	798.7	751.4	701.3	662.3	626.2	570.5	548.2	537.1
77.5°	512.1	528.8	548.2	517.6	498.2	462.0	423.0	386.8	342.3	317.3	317.3
80°	347.9	361.8	375.7	370.1	347.9	314.5	283.9	244.9	214.3	194.8	192.0
82.5°	264.4	275.5	295.0	272.7	250.5	222.6	197.6	169.8	141.9	119.7	119.7
85°	94.6	108.5	119.7	130.8	139.1	141.9	122.5	100.2	80.7	64.0	61.2
87.5°	25.0	27.8	30.6	27.8	27.8	27.8	30.6	27.8	25.0	19.5	19.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)